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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,758	07/24/2006	Day Chahroudi	63463.000004	2583
21967	7590	11/10/2009	EXAMINER	
HUNTON & WILLIAMS LLP			MARTINEZ, JOSEPH P	
INTELLECTUAL PROPERTY DEPARTMENT				
1900 K STREET, N.W.			ART UNIT	PAPER NUMBER
SUITE 1200				2873
WASHINGTON, DC 20006-1109				
			MAIL DATE	DELIVERY MODE
			11/10/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/552,758	CHAHROUDI, DAY	
	<b>Examiner</b>	<b>Art Unit</b>	
	JOSEPH MARTINEZ	2873	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 11 June 2009.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-55 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 1-18,24-50 and 52-55 is/are allowed.  
 6) Claim(s) 19-23 is/are rejected.  
 7) Claim(s) 51 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 11 October 2005 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____.   | 6) <input type="checkbox"/> Other: _____ .                        |

**DETAILED ACTION**

***Response to Arguments***

Applicant's arguments, see p. 9-13, filed 6-11-09, with respect to claims 1-18, 24-50 and 52-55 have been fully considered and are persuasive. The 35 U.S.C. 102(b) and 35 U.S.C. 103(a) rejections of claims 1-18, 24-50 and 52-55 have been withdrawn.

Applicant's arguments, see p. 9-13, filed 6-11-09, with respect to the rejection(s) of claim(s) 19-23 and 51 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Noda et al. (5120379).

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 19-21 and 23 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Noda et al. (5120379).

Re claim 19, Noda et al. teaches for example, a sealant (abstract) made from a saturated hydrocarbon rubber polymer wherein: the polymer has an average

functionality of two or more (col. 2, ln. 67-68) in order to form crosslinks (col. 2, ln. 20-24).

Re claim 20, Noda et al. further teaches for example, said polymer functionality is hydroxyl (col. 2, ln. 25-56).

Re claim 21, Noda et al. further teaches for example, said crosslinker functionality is isocyanate (col. 10, ln. 60).

Re claim 23, Noda et al. further teaches for example, a hindered amine stabilizer with functionality that chemically bonds it to said polymer, is added (col. 7, ln. 23-33 and col. 9, ln. 53-58).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Noda et al. (5120379).

Re claim 23, Noda et al. teaches for example, said isocyanate (col. 10, ln. 60).

But, Noda et al. fails to explicitly teach trimethyl hexamethylene diisocyanate.

However, Noda et al. teaches for example, varying the additives (col. 10, ln. 50-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, since polyisocyanates and trimethyl hexamethylene diisocyanate are known equivalents in the art and the selection of any of these known equivalents would be within the level of ordinary skill in the art.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Noda et al. in order to improve adhesion, as taught by Noda et al. (col. 10, ln. 50-51).

### ***Allowable Subject Matter***

Claims 1-18, 24-50 and 52-54 are allowed.

Claim 51 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: applicant's arguments on p. 9-13, filed on 6-11-09, are deemed persuasive and furthermore, the prior art taken alone or in combination fails to anticipate or fairly suggest the limitations of the claims, in such a manner that a rejection under 35 USC 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims 1 and 24 and dependent claim 51.

Specifically regarding claims 1 and 24, Byker et al. (6084702) or Tonazzi et al. (5856211) teaches the state of the art of a light valve and a process for making a light valve.

But, Byker et al. or Tonazzi et al. fails to explicitly teach a combination of all the claimed features including a solution comprising a polymer dissolved in a solvent and polymer and solvent reversibly forming finely divided separate phases upon heating, as claimed.

Specifically regarding claim 51, Noda et al. (5120379) teaches the state of the art of a sealant.

But, Noda et al. fails to explicitly teach a combination of all the claimed features including the polymer having the average functionality of two or more is made by reacting said polymer functionality with a crosslinker which has a functionality of two or more, and which is soluble in said polymer, as claimed.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph P. Martinez whose telephone number is 571-272-2335. The examiner can normally be reached on M-F 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Joseph Martinez/  
Primary Examiner  
AU 2873  
11-8-09